

## Problem PA

## Problem C

The English language is infamous for having an inconsistent spelling system. One feature in the spelling system that you are interested in is the usage of the letter c. The letter c can be pronounced in multiple different ways, which might be confusing for the speaker. However, there are some simplified patterns to help speakers determine which pronunciation to use.

- It is pronounced as ⟨k⟩ if it is either: followed by a, o, or u; followed by a consonant letter other than h and y; or at the end of a word. The consonant letters are the English letters excluding the vowel letters: a, e, i, o, and u.
- It is pronounced as ⟨s⟩ if it is followed by e, i, or y.
- The pair of adjacent letters ch is pronounced with a unique sound ⟨c⟩.

You are given  $N$  words:  $S_1, S_2, \dots, S_N$ . For each given word, simplify the spelling system by replacing every occurrence of c into k or s (for the sound ⟨k⟩ and ⟨s⟩ respectively) according to the patterns above and every occurrence of ch into c.

### Input

The first line consists of an integer  $N$  ( $1 \leq N \leq 100$ ).

Each of the next  $N$  lines consists of a string  $S_i$ . String  $S_i$  consists of only lowercase English letters, and its length is between 1 and 100.

### Output

For each word, output a single line containing a string that represents the simplified spelling system of string  $S_i$  according to the patterns above.

#### Sample Input 1

```
10
cyan
circle
ceramic
coccyx
delicacy
chacha
coach
blackjack
church
hiccup
```

#### Sample Output 1

```
syan
sirkle
seramik
koksyx
delikasy
caca
koac
blakkjakk
curc
hikkup
```



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**Sample Input 2**

```
6
caesar
cillian
celtic
character
chef
echelon
```

**Sample Output 2**

```
kaesar
sillian
seltik
carakter
cef
ecelon
```

**Sample Input 3**

```
5
cacbcccdcecfcgchcicjckclcm
cncocpcqcrscstcucvcwcxyczc
abdefghijklmnopqrstuvwxyz
cchh
cc
```

**Sample Output 3**

```
kakbkkkdsekfkgsikjkkklkm
knkokpkqkrksktkukvkwkxsykzk
abdefghijklmnopqrstuvwxyz
kch
kk
```